

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WD2XBD

(Call Sign)

XD FX

(Class of Station)

0172-EX-RR-2010

(File Number)

NAME Raytheon Company

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(k) of the Commission's Rules

Station Locations

- (1) Saint Petersburg (PINELLAS), FL - NL 27-47-22; WL 82-44-23
- (2) Largo (PINELLAS), FL - NL 27-52-27; WL 82-44-52

Frequency Information

Saint Petersburg (PINELLAS), FL - NL 27-47-22; WL 82-44-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14 kHz	FX	NON	8.6 mW (ERP)	
80 kHz	FX	NON	8.6 mW (ERP)	
520 kHz	FX	NON	24 mW (ERP)	
1000 kHz	FX	NON	24 mW (ERP)	

This authorization effective April 20, 2010 and
will expire 3:00 A.M. EST May 20, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Saint Petersburg (PINELLAS), FL - NL 27-47-22; WL 82-44-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5100 kHz	FX	N0N	24 mW (ERP)	
10100 kHz	FX	N0N	24 mW (ERP)	
52 MHz	FX	N0N	31 mW (ERP)	
100 MHz	FX	N0N	31 mW (ERP)	
523 MHz	FX	N0N	49 mW (ERP)	
1290 MHz	FX	N0N	770 mW (ERP)	
4190 MHz	FX	N0N	770 mW (ERP)	
4800 MHz	FX	N0N	770 mW (ERP)	
5470 MHz	FX	N0N	770 mW (ERP)	
10495 MHz	FX	N0N	770 mW (ERP)	

Frequency Information

Saint Petersburg (PINELLAS), FL - NL 27-47-22; WL 82-44-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
18000 MHz	FX	N0N	770 mW (ERP)	

Largo (PINELLAS), FL - NL 27-52-27; WL 82-44-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14 kHz	FX	N0N	8.6 mW (ERP)	
80 kHz	FX	N0N	8.6 mW (ERP)	
520 kHz	FX	N0N	24 mW (ERP)	
1000 kHz	FX	N0N	24 mW (ERP)	
5100 kHz	FX	N0N	24 mW (ERP)	
10100 kHz	FX	N0N	24 mW (ERP)	
52 MHz	FX	N0N	31 mW (ERP)	
100 MHz	FX	N0N	31 mW (ERP)	

Frequency Information

Largo (PINELLAS), FL - NL 27-52-27; WL 82-44-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
523 MHz	FX	N0N	49 mW (ERP)	
1290 MHz	FX	N0N	770 mW (ERP)	
4190 MHz	FX	N0N	770 mW (ERP)	
4800 MHz	FX	N0N	770 mW (ERP)	
5470 MHz	FX	N0N	770 mW (ERP)	
10495 MHz	FX	N0N	770 mW (ERP)	
18000 MHz	FX	N0N	770 mW (ERP)	

Special Conditions:

- (1) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Southern Coordinator, Atlanta, GA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Southern Coordinator, Atlanta, GA, as necessary to ensure compatibility with existing uses.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (5) Licensee must notch out 520 KHz because the use of the frequency must be pre-coordinated with FAA.